Manual Testing Plan

Test Objective: Ensure end-to-end core functionality of web platform for **Data Preprocessing**, **Compute Summary Measures**, and **Compile Data** pages.

Step 1: FRDR Query

1. Navigate to **STEP 1: FRDR Query**.
2. Apply filter: **Trial** → Enter trial id: 32.
3. Click **Apply**, then **Load Data from FRDR** button.
    - **Expected Outcome:** Pop-up message: "FRDR data loaded successfully!"

Step 2: Data Preprocessing

1. Navigate to **STEP 2: Data Preprocessing**.
2. Verify **Trial ID: 32** appears in **Available Trials**.
3. Select **Trial ID: 32** checkbox.

Scenario 1: Fetch Preprocessed

- Click **Fetch Preprocessed**.
- **Expected Outcome:** Pop-up: "An error occurred while fetching preprocessed data."
- Proceed to Scenario 2.

Scenario 2: Preprocess Data

1. Click **Preprocess**.
    - **Expected Outcome:**
        - Loading wheel appears.
        - After a few minutes, two files appear in the **Result** section:
            - preprocessed_trial_32.csv
            - parameters_trial_32.csv
2. Select both files → Click **Download Selected**.
3. Handle any browser popup (i.e. “http://ratbat.cas.mcmaster.ca/ wants to Download multiple files” click “Allow”) for multiple file downloads.

Step 3: Compute Summary Measures

1. Navigate to **STEP 3: Compute Summary Measures**.
2. A popup tip appears → Close it using the “x” button.
3. Verify preprocessed_trial_32.csv appears in **Preprocessed Trials** after a few seconds.
4. Select:
    - **Select All** in **Summary Measures**.
    - **Checkbox** for preprocessed_trial_32.csv.
    - Click **Apply**.
    - **Expected Outcome:** Table displays trial ID with computed summary measures.
5. Change precision:
    - Locate **Select Precision:** dropdown (default: 2 Decimals).

- Select **10 Decimals**.
- **Expected Outcome:** Some values update to 10 decimal places while others stay whole numbers.

6. Select the table checkbox → Click **Download Selected** → Verify file matches table data.

Step 4: Compile Data

1. Navigate to **STEP 4: Compile Data**.
2. Verify displayed sections:
   - **Metadata Variables** (several items).
   - **Summary Measures** (all used from Step 3).
   - **Preprocessed Trials** (preprocessed_trial_32.csv).
3. Click **Select All** in each section.
   - **Expected Outcome:** Preview table updates each time.
   - Metadata variables mostly empty for Trial 32.
   - Summary Measures match values from Step 3.
4. Scroll using the horizontal bar in the table to verify all data is present.
5. Click **Download Compiled Data** → Verify file matches table data.

Detailed Rough draft will delete later:

Test 1 Objective: Ensure end-to-end core functionality of web platform for Data Preprocessing, Compute Summary Measures, and Compile Data pages.

User clicks on “STEP 1: FRDR Query” in the navigation tab, selects the “Trial” filter on the right and inputs a trial in the field “trial id:” ex. 32. User then clicks “Apply” button and then “Load Data from FRDR” button. Expected response “FRDR data loaded successfully!” pop up message.

User clicks on “STEP 2: Data Preprocessing” in the navigation tab. In the “Available Trials” section they should see the loaded trial Trial ID ex. Trial ID: 32. User clicks checkbox beside the loaded Trial ID and then
Scenario 1:
User clicks “Fetch Preprocessed”. Expected response for Trial 32: “An error occurred while fetching preprocessed data.” pop up message because trial 32 does not have pre-existing preprocessed data. User should proceed with scenario 2 now.
Scenario 2:
User clicks “Preprocess”. Expected response for Trial 32: A loading wheel will show up and after a few minutes in the “Result” section a file “preprocessed_trial_32.csv” and a file “parameters_trial_32.csv”. User clicks the checkboxes beside the items in the “Result” section and then clicks “Download Selected” to ensure the download functionality works. User may receive a popup that says “http://ratbat.cas.mcmaster.ca/ wants to Download multiple files” and should click the “Allow” option to download both files.

User clicks on “STEP 3: Compute Summary Measures” in the navigation tab. User should see a popup tip titled “Welcome to Compute Summary Measures”, they should navigate to the “x” on the popup tip to close it. User should “preprocessed_trial_32.csv” in the “Preprocessed Trials” section a few seconds after being on this page. User should click the “Select All” button in the “Summary Measures” section and the checkbox beside “preprocessed_trial_32.csv” and click the “Apply” button. User should see a table consisting of the data file with its trial id and summary measures with its computed values a few seconds after clicking the “Apply” button. User should navigate to the “Select Precision:” with default “2 Decimals” drop down and select their desired precision ex. 10. In the table now some values will be whole numbers and some values will have their precision increased from 2 to 10. User should click the checkbox in the table and then click the “Download Selected” button and open the downloaded file to verify its data matches the table on the page.

User clicks on “STEP 4: Compile Data” in the navigation tab. User should see several items in the “Metadata Variables” section, all the summary measures computed in “STEP 3: Compute Summary Measures” in the “Summary Measures” section, and “preprocessed_trial_32.csv” in the “Preprocessed Trials” section. User should click the “Select All” button in all three sections (“Metadata Variables”, “Summary Measures”, and “Preprocessed Trials”) and notice the table update in the “Preview” section accordingly. The expected table should have majority of the metadata variable columns be empty as they do not have associated values for trial 32, user should use the horizontal slider in the table to verify all

items are there. The summary measures will have the same values as the ones calculated in “STEP 3: Compute Summary Measures”. User should finally click the “Download Compiled Data” button and ensure its data matches the table on the page.